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09/918,380	07/30/2001	Indra Laksono	1459-VIXS009	9961
29331	7590	02/22/2008	EXAMINER	
LARSON NEWMAN ABEL POLANSKY & WHITE, LLP			DIEP, NHON THANH	
5914 WEST COURTYARD DRIVE			ART UNIT	PAPER NUMBER
SUITE 200			2621	
AUSTIN, TX 78730				

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02/22/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	09/918,380	LAKSONO ET AL.	
	Examiner	Art Unit	
	Nhon T. Diep	2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 11/20/2007.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 13, 15-29, 31-40, 43-50 and 52-54 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 13, 15-29, 31-40, 43-50 and 52-54 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f):
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____
- 5) Notice of Informal Patent Application
- 6) Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 13, 15-29, 31-40 and 43-50 and 52-54 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 13, 15-29, 31-40, 43-50, 52-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eifrig et al (art of record), in view of Pian et al (US 6,366,614).

Eifrig et al discloses a transcoder-multiplexer architecture comprising the same integrated single chip system comprising: a memory (fig. 3a, el. 306 and buffer 310); first processor to parse received video data to generate a plurality of packets and provide the plurality of packets for storage in the memory, the first processor comprising a general purpose processor (fig. 1a, el. 10 and col. 3, ln. 17-19 and also fig. 3a, el. 306 and buffer 310); and a second processor to access packets of the plurality of packets from the memory, the second processor including a video transcoder to transcode video data of the packets (fig. 1a, el. 30) as specified in claim 13; wherein the second element further includes: a data decompression portion; a scalar; and a data compression portion (col. 4, ln. 11-25) as specified in claim 15; wherein the decompression portion includes a portion to perform a frequency domain to time domain transform (IDCT) as

specified in claim 16; wherein the frequency domain to time domain transform portion is a portion to perform an inverse discrete cosine transform portion as specified in claim 17; wherein the decompression portion includes a portion to perform a de-quantization of data (IQ) as specified in claim 18; wherein the decompression portion includes a portion to perform a DeZigZag of data (VLD) as specified in claim 19; wherein the decompression portion includes a motion compensation portion (fig. 6, el. 620) as specified in claim 20; wherein the decompression portion includes a motion compensation portion (fig. 6, el. 620) as specified in claim 21; wherein the decompression portion includes a motion compensation portion (fig. 6, el. 620) as specified in claim 22; wherein the compression portion includes a motion vector generator (MV as inputted to el. 620) as specified in claim 23; wherein the motion vector generator includes a buffered motion predictor (el. 630, 640) as specified in claim 24; wherein the compression portion further includes a portion to perform a time domain to frequency domain transform (col. 4, ln. 17) as specified in claim 25; wherein the time domain to frequency domain transform portion includes a discrete cosine transform portion (col. 4, ln. 17) as specified in claim 26; wherein the compression portion includes a motion vector generator (MV as inputted to el. 620) as specified in claim 27; wherein the motion vector generator includes a buffered motion predictor (el. 630, 640) as specified in claim 28; wherein the second processor is coupled to the first processor through a memory controller and a sequencer (col. 6, ln. 6-41) as specified in claim 29; a method comprising: receiving, at a first element, a data stream including video data; parsing, at the first processor, the data stream to identify video data associated with a

first channel (fig. 1a, el. 10 and col. 3, ln. 17-19 and also fig. 3a, el. 306 and buffer 310); packetizing, at the first processor, the video data associated with the first channel to generate the one or more packets, each packet having a video data payload and information related to the video data payload, wherein the video data payloads of the one or more packets represent a first channel of compressed video data having a characteristic represented by a first value (output to el. 20); storing the one or more packets at a memory (fig. 3a, el. 306 and buffer 310); accessing, at a second processor, the one or more packets from the memory; and transcoding, at the second processor, the video data payloads of the one or more packets to generate a representation of a second channel of compressed video data having the characteristic represented by a second value (fig. 1a, el. 30) as specified in claims 44 and 53; wherein the characteristic is a compression factor (fig. 6, el. 650) as specified in claims 31-32 and 45-46; wherein transcoding the video data payloads comprises: decompressing the video data payloads to generate a first intermediate data; scaling the first intermediate data to generate a second intermediate data; and compressing the second intermediate data to generate the representation of the second channel (fig. 1a, el. 30 and fig. 6) as specified in claim 33; wherein transcoding the video data payloads comprises: decompressing the video data payloads to generate a first intermediate data, wherein the first intermediate data is frequency domain data; converting the first intermediate data to a second intermediate data, wherein the second intermediate data is time domain data having the characteristic represented by the first value; converting the second intermediate data to a third intermediate data having the characteristic represented by the second value; and

compressing the third intermediate data to generate the representation of the second channel (figs. 6, 7, 8) as specified in claim 34; wherein receiving the one or more packets includes: storing the video data payloads of the one or more packets in a first memory of the second element; and storing the information associated with the video data payloads in a second memory of the second element (fig. 6, el. 630, 640) as specified in claim 35; wherein the video data payloads are transcoded based at least in part on the information associated with the video data payloads (MV-620-615-A1-Q2) as specified in claim 37; wherein the information associated with a video data payload indicates that the video data payload includes one or more of video time stamp information, picture configuration information, slice information, macroblock information, motion vector information, quantizer matrix information, or specific picture location information (MV) as specified in claim 38; wherein receiving the one or more packets and transcoding the video data payloads support a real-time play back of the representation of the second channel (col. 23, ln. 64 – col. 24, ln. 7) as specified in claim 39; further comprising: providing the representation of the second channel of compressed video data for reception by at least one multimedia device (fig. 1a, output of el. 40) as specified in claim 40; wherein the first data element includes a general purpose element and the second data element includes a video element (el. 10, 30) as specified in claim 43; wherein the first data processor is further to: decompress the video data payloads to generate a first intermediate data (fig. 1a, el. 20); scale the first intermediate data to generate a second intermediate data (fig. 6, el. Q2); and compress the second intermediate data to generate the representation of the second channel (fig. 6, el. 630, 640) as specified in claim 40.

6, el. 680) as specified in claim 47; wherein the first processor is further to: decompress the video data payloads to generate a first intermediate data, wherein the first intermediate data is frequency domain data; convert the first intermediate data to a second intermediate data, wherein the second intermediate data is time domain data having the characteristic represented by the first value; convert the second intermediate data to a third intermediate data having the characteristic represented by the second value; and compress the third intermediate data to generate the representation of the second channel (fig. 6, DCT, IDCT, Q1, Q2) as specified in claim 48; wherein the first processor encodes the video data payloads based at least in part on the information associated with the video data payloads (MV) as specified in claim 49; wherein the information associated with a video data payload indicates that the video data payload includes one or more of video time stamp information, picture configuration information, slice information, macroblock information, motion vector information, quantizer matrix information, or specific picture location information (MV) as specified in claim 50; wherein the first data element comprises a video element and the second data element comprises a general purpose element (fig. 1a, el. 10, 30) as specified in claim 52; and Parsing/Demux 10 and Code transcoding 30 are integrated at the same package substrate (fig. 1a). It is noted that Eifrig et al does not particularly disclose that a first element and a second element are different processors as specified in claims 13, 44 and 53. Pian et al teaches, in figure 1, elements 10 and 12, that a preprocessor and an encoder can be constructed as two separate processors. And, therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to

modify the system of Eifrig et al by constructing a preprocessor and an transcoder as two separate processors as taught by Pian et al as a matter of various variance, and further more, the combination would result in a system that the first processor and the second processor are integrated at a same package substrate as specified in claim 54.

Regarding to claim 36: Even though, Eifrig et al does not particularly disclose that the buffer memories as used to hold video data payloads and associated video information are the same type of buffer memory nor they are of the different type of memory; however, in the absence of any contradictory teachings, it would have been obvious to one of ordinary skilled in the art at the time the invention was made to construct the first memory and the second memory as of the same type of memory for the sake of simplicity.

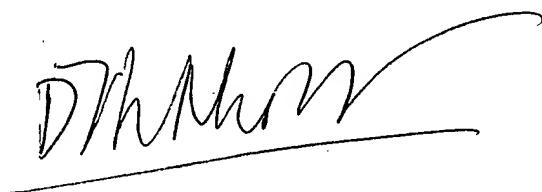
Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nhon T. Diep whose telephone number is 571-272-7328. The examiner can normally be reached on m-f.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ND



NHON DIEP
PRIMARY EXAMINER